

## EAST Search History

### EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L7	1428	(locat\$3 or identify\$3 or recogniz\$3) near3 (boundary or edges\$4 or lines\$3) near3 object	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/30 14:10
L8	8	7 and (form\$3 near3 electronic near3 (image or photo or picture or frame))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/30 14:12
L9	7	8 and (merg\$\$4 or combin\$3 or add\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/30 14:13
L10	3	9 and patch	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/30 14:13
L11	3658	382/199	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/30 14:15
L12	2892	11 and (merg\$\$4 or combin\$3 or add\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/30 14:15
L13	101	7 and 12	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/30 14:16
L14	6	13 and patch	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/11/30 14:17
S1	25	"5214305"	USPAT; USOCR	OR	ON	2007/03/14 14:37
S2	13	"6750066"	USPAT; USOCR	OR	ON	2007/03/14 10:11
S3	13	"6750066"	USPAT	OR	ON	2007/03/14 10:11

S5	14	"6750066"	US-PGPUB; USPAT; JPO	OR	ON	2007/03/14 10:15
S6	10	"5429736"	US-PGPUB; USPAT; JPO	OR	ON	2007/03/14 11:43
S7	24	"5918960"	US-PGPUB; USPAT; JPO	OR	ON	2007/03/14 11:46
S8	1	"6882002"	US-PGPUB; USPAT; JPO	OR	ON	2007/03/14 11:48
S9	1	2003/0039359	US-PGPUB; USPAT; JPO	OR	ON	2007/10/10 17:21
S11	1	"62121367"	JPO	OR	ON	2007/03/14 11:52
S14	2	2003-162748	US-PGPUB; USOCR; DERWENT	OR	ON	2007/03/14 11:55
S15	2	2003-162748	US-PGPUB; USOCR; EPO; JPO; DERWENT	OR	ON	2007/03/14 11:56
S16	2	2003-162748	DERWENT	OR	ON	2007/03/14 11:57
S17	782	382/278	USPAT; USOCR	OR	ON	2007/03/14 14:39
S29	29	("4338024"   "4393466"   "4538299"   "4612614"   "5600761"   "5625709"   "6269194"   "6272253"   "6400846"   "6516097"   "7020335"   "7031525"   "7110602").PN.	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/11 11:33
S30	0	S29 and (locat\$3 near3 boundary near3 object)	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/10 17:25
S31	3	S29 and (locat\$3 near3 boundary near3 object)	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/10 17:30
S32	35	("3899771"   "4003024"   "4060713"   "4087788"   "4097845").PN. OR ("4538299").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/10/10 17:26
S33	5	S32 and (locat\$3 near3 boundary near3 object)	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/10 17:27
S34	15	("4060713"   "4097845"   "4453266"   "4538299"   "4550437").PN. OR ("5121436").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/10/10 17:28

S35	1	S34 and (locat\$3 near3 boundary near3 object)	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/10 17:36
S36	21	("4060713"   "4097845"   "4538299"   "4550437"   "5086476"   "5099521").PN. OR ("5432865").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/10/10 17:29
S37	1	S36 and (locat\$3 near3 boundary near3 object)	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/10 17:30
S38	35	("3899771"   "4003024"   "4060713"   "4087788"   "4097845").PN. OR ("4538299").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/10/10 17:34
S39	15	("3899771"   "4060713"   "4538299"   "5220647"   "5694487"   "5719958").PN. OR ("6289126").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/10/10 17:34
S40	0	S29 and (forming near3 patches)	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/10 17:38
S41	3731	(forming or creating) near3 patches	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/10 17:39
S42	257	S41 and (image near3 pixels)	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/10 17:40
S43	33	S41 and (patch near3 image near3 pixels)	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/11 09:04
S44	30155	(merge or combin\$3) near3 ( group pixels or patches)	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/11 08:31
S45	7218	S44 and images	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/11 08:32

S46	4686	S45 and (segment\$3 or divid\$3)	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/11 08:33
S47	9	S46 and (locat\$3 near3 boundary near3 object)	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/11 08:39
S48	135	S46 and (locat\$3 near3 boundary)	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/11 08:39
S49	53	("4384336"   "4754488"   "4809347"   "4835532"   "5187754"   "5325449"). PN. OR ("5640468").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/10/11 08:53
S50	0	S49 same ((merge or combin\$3) near3 ( group pixels or patches))	US-PGPUB; USPAT; USOCR	OR	OFF	2007/10/11 10:11
S51	4	S49 and ((merge or combin\$3) near3 ( group pixels or patches))	US-PGPUB; USPAT; USOCR	OR	OFF	2007/10/11 08:55
S52	28628	binary near3 image	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/11 09:04
S53	66	S52 and (particles near3 edge)	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/11 09:05
S54	4	S53 and ((detect\$3 or locat\$3) near3 patches)	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/11 09:26
S55	1	S54 and (( combine or merge) near3 patches)	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/11 09:07
S56	9620	(detect\$3 or determin\$3) near3 edge near3 images	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/11 09:27

S57	1531	S56 same(groups regions or patches)	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/11 09:28
S58	140	S57 same(combin\$3 or merg\$3 or add\$3)	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/11 09:37
S59	29	S58 same (distance or threshold)	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/11 09:30
S60	0	S58 same (locat\$3 near3 object)	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/11 09:40
S61	0	("2004/0136593").URPN.	USPAT	OR	OFF	2007/10/11 09:51
S62	92	detect\$3 near3 particle near3 images	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/11 10:11
S63	0	S44 same S62	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/11 09:52
S64	1	S44 and S62	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/11 09:52
S65	0	("2005/0213086").URPN.	USPAT	OR	OFF	2007/10/11 09:53
S66	15	S62 same (segment\$3 or divid\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/11 10:11
S67	0	S66 same ((merge or combin\$3) near3 ( group pixels or patches))	US-PGPUB; USPAT; USOCR	OR	OFF	2007/10/11 10:19
S68	0	"55339841".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/10/11 10:14
S69	1	"5539841".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/10/11 10:14

S70	0	S69 and ((merge or combin \$3) near3 ( group pixels or patches))	US-PGPUB; USPAT; USOCR	OR	OFF	2007/10/11 10:20
S71	1	S69 and merge	US-PGPUB; USPAT; USOCR	OR	OFF	2007/10/11 10:23
S72	1	"5642433".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/10/11 10:23
S73	2	"5539841".pn.	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/11 17:51
S74	4	"4338024".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/04/21 10:17
S75	3	"4393466".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/04/21 10:17
S76	1	10/716253.app.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/04/21 14:35
S77	12	Chapoulaud-Eric.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/04/21 14:40
S78	30	("4338024"   "4393466"   "4538299"   "4612614"   "5600761"   "5625709"   "6269194"   "6272253"   "6400846"   "6516097"   "7020335"   "7031525"   "7110602").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/04/21 14:44
S79	0	S78 and (patches or repair)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/04/21 14:45
S80	0	S78 and patches	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/04/21 14:45
S81	0	S78 and repairs	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/04/21 14:45

S82	0	S78 and merges	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/04/21 14:46
S83	58	(detect\$3 or determin\$3) near3 particle near3 edge	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/04/21 14:52
S84	17590	edge near3 segment	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/04/21 14:57
S85	5	Patches near3 binary near3 images	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/04/21 14:58
S86	1	S83 and S84	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/04/21 14:59
S87	2	"4538299".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/04/21 15:54
S88	2	"5625709".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/04/21 15:56
S90	29844	(window patch mask) near3 object	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	OFF	2008/10/24 14:40
S91	8298	S90 and (combine sum add)	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	OFF	2008/10/24 14:42
S92	9	S91 and (locat\$3 adj2 boundary adj2 object)	US-PGPUB; USPAT; USOCR; JPO; DERWENT; IBM_TDB	OR	OFF	2008/10/24 14:43

S93	18	("20040090523"   "20040091047"   "20050213660"   "5635986"   "5936671"   "5940538"   "6075875"   "6137913"   "6169573"   "6192156"   "6236680"   "6298170"   "6337917"   "6389168"   "6393054"   "6400846"   "6424370"   "6466624").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/10/25 11:09
S94	18	("20040090523"   "20040091047"   "20050213660"   "5635986"   "5936671"   "5940538"   "6075875"   "6137913"   "6169573"   "6192156"   "6236680"   "6298170"   "6337917"   "6389168"   "6393054"   "6400846"   "6424370"   "6466624").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/10/25 11:09
S95	5	("3899771"   "4003024"   "4060713"   "4087788"   "4097845").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/10/25 11:22
S96	4	"4338024".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/10/25 11:45
S97	2	"4538299".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/10/25 11:47
S98	2	"5625709".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/10/25 11:47
S99	11	("3805028"   "4069411"   "4115803"   "4115805"   "4115806"   "4183013"   "4338024"   "4361830"   "4538299"   "4833722"   "4866783").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/10/25 11:48
S100	3278633	fluid or sample	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/10/25 12:39

S101	312012	S100 and (patch mask window)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/10/25 12:39
S102	69080	S101 and images	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/10/25 12:40
S103	39180	S102 and (add sum combine)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/10/25 12:40
S104	81	S103 and merge near3 ( patch window mask)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/10/25 12:41
S105	8669	(particles fluid) near3 edges	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/10/25 13:23
S106	1086	S105 and (window mask patch)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/10/25 13:23
S107	0	S106 and (merge adj patch)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/10/25 13:25
S108	473	S106 and (merge add sum combine)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/10/25 13:25
S109	2	S106 and ((merge add sum combine) near3 patch)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/10/25 13:26
S110	3	S106 and (merge add sum combine) near3 patches	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/10/25 13:50

S111	3	S108 and (merge add sum combine) near3 patches	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/10/25 13:52
S112	2	S108 and (merge add sum combine) near3 patch	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/10/25 13:52
S113	160	S108 and images	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/10/25 13:53
S114	8	S113 and (edge near3 object)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/10/25 13:55
S115	3	"4393466".PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/10/25 15:46
S116	4	"4338024".PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/10/25 15:46
S117	2	"4538299".PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/10/25 15:48
S118	2	"4612614".PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/10/25 15:48
S119	2	"5625709".PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/10/25 15:49
S120	2	"20020031255".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/26 12:17

**EAST Search History (Interference)**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L6	0	((forming near3 electronic near3 image near3 field) and ((identifying near3 groups near3 image) and (forming near3 patches near3 around near3 image near3 pixel near3 groups) and (performing near3 merge near3 process)).clm.	US-PGPUB; USPAT; UPAD	OR	OFF	2009/11/30 14:02
L15	1	((forming near3 patches) and (locating near3 boundary near3 object) and (patch near3 merges)).clm.	US-PGPUB; USPAT; UPAD	OR	OFF	2009/11/30 14:20

11/30/2009 2:27:11 PM

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